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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/601,667C

DATE: 09/09/2002 P.6
TIME: 14:43:43

Input Set : A:\36636revseq.txt

Output Set: N:\CRF4\09092002\I601667C.raw

4 <110> APPLICANT: Morris, Peter
5 Stiefel, Thomas
6 Voelter, Wolfgang
7 Welters, Peter
9 <120> TITLE OF INVENTION: Recombinant Mistletoe Lectins
11 <130> FILE REFERENCE: 29841/36636
13 <140> CURRENT APPLICATION NUMBER: 09/601,667C
14 <141> CURRENT FILING DATE: 2000-10-06
16 <150> PRIOR APPLICATION NUMBER: PCT/EP99/00696
17 <151> PRIOR FILING DATE: 1999-02-03
20 <150> PRIOR APPLICATION NUMBER: D 198 04 210.8
21 <151> PRIOR FILING DATE: 1998-02-03
23 <160> NUMBER OF SEQ ID NOS: 41
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 533
28 <212> TYPE: PRT
C--> 29 <213> ORGANISM: Artificial
31 <220> FEATURE:
32 <223> OTHER INFORMATION: mistletoe lectin
35 <220> FEATURE:
36 <221> NAME/KEY: SITE
37 <222> LOCATION: 15
38 <223> OTHER INFORMATION: product= "Xaa is Asp or Glu"
39 /label= Xaa1
41 <220> FEATURE:
42 <221> NAME/KEY: SITE
43 <222> LOCATION: 63
44 <223> OTHER INFORMATION: product= "Xaa is Gly or Gln"
45 /label= Xaa2
47 <220> FEATURE:
48 <221> NAME/KEY: SITE
49 <222> LOCATION: 66
50 <223> OTHER INFORMATION: product= "Xaa is Ile or Val"
51 /label= Xaa3
53 <220> FEATURE:
54 <221> NAME/KEY: SITE
55 <222> LOCATION: 75
56 <223> OTHER INFORMATION: product= "Xaa is Leu or Ala"
57 /label= Xaa4
59 <220> FEATURE:
60 <221> NAME/KEY: SITE
61 <222> LOCATION: 107
62 <223> OTHER INFORMATION: product= "Xaa is missing"

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63      /label= Xaa5
65 <220> FEATURE:
66 <221> NAME/KEY: SITE
67 <222> LOCATION: 113
68 <223> OTHER INFORMATION: product= "Xaa is Asn or Thr"
69      /label= Xaa6
71 <220> FEATURE:
72 <221> NAME/KEY: SITE
73 <222> LOCATION: 117
74 <223> OTHER INFORMATION: product= "Xaa is Pro or Thr"
75      /label= Xaa7
77 <220> FEATURE:
78 <221> NAME/KEY: SITE
79 <222> LOCATION: 134
80 <223> OTHER INFORMATION: product= "Xaa is Asp or Glu"
81      /label= Xaa8
83 <220> FEATURE:
84 <221> NAME/KEY: SITE
85 <222> LOCATION: 141
86 <223> OTHER INFORMATION: product= "Xaa is Ser or Thr"
87      /label= Xaa9
89 <220> FEATURE:
90 <221> NAME/KEY: SITE
91 <222> LOCATION: 145
92 <223> OTHER INFORMATION: product= "Xaa is Phe or Tyr"
93      /label= Xaa10
95 <220> FEATURE:
96 <221> NAME/KEY: SITE
97 <222> LOCATION: 152
98 <223> OTHER INFORMATION: product= "Xaa is Thr or Ala"
99      /label= Xaa11
101 <220> FEATURE:
102 <221> NAME/KEY: SITE
103 <222> LOCATION: 177
104 <223> OTHER INFORMATION: product= "Xaa is Ala or Tyr"
105      /label= Xaa12
107 <220> FEATURE:
108 <221> NAME/KEY: SITE
109 <222> LOCATION: 180
110 <223> OTHER INFORMATION: product= "Xaa is Tyr or Asp"
111      /label= Xaa13
113 <220> FEATURE:
114 <221> NAME/KEY: SITE
115 <222> LOCATION: 185
116 <223> OTHER INFORMATION: product= "Xaa is Ala or Glu"
117      /label= Xaa14
119 <220> FEATURE:
120 <221> NAME/KEY: SITE
121 <222> LOCATION: 191
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Input Set : A:\36636revseq.txt
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122 <223> OTHER INFORMATION: product= "Xaa is Val or Met"
123 /label= Xaa15
125 <220> FEATURE:
126 <221> NAME/KEY: SITE
127 <222> LOCATION: 219
128 <223> OTHER INFORMATION: product= "Xaa is Ile or Phe"
129 /label= Xaa16
131 <220> FEATURE:
132 <221> NAME/KEY: SITE
133 <222> LOCATION: 224
134 <223> OTHER INFORMATION: product= "Xaa is Pro or Ser"
135 /label= Xaa17
137 <220> FEATURE:
138 <221> NAME/KEY: SITE
139 <222> LOCATION: 225
140 <223> OTHER INFORMATION: product= "Xaa is Pro or Thr"
141 /label= Xaa18
143 <220> FEATURE:
144 <221> NAME/KEY: SITE
145 <222> LOCATION: 232
146 <223> OTHER INFORMATION: product= "Xaa is Thr or Ser"
147 /label= Xaa19
149 <220> FEATURE:
150 <221> NAME/KEY: SITE
151 <222> LOCATION: 236
152 <223> OTHER INFORMATION: product= "Xaa is Asp or Ser"
153 /label= Xaa20
155 <220> FEATURE:
156 <221> NAME/KEY: SITE
157 <222> LOCATION: 287
158 <223> OTHER INFORMATION: product= "Xaa is Asn or Ser"
159 /label= Xaa21
161 <220> FEATURE:
162 <221> NAME/KEY: SITE
163 <222> LOCATION: 290
164 <223> OTHER INFORMATION: product= "Xaa is Cys or Arg"
165 /label= Xaa22
167 <220> FEATURE:
168 <221> NAME/KEY: SITE
169 <222> LOCATION: 325
170 <223> OTHER INFORMATION: product= "Xaa is Gly or Asn"
171 /label= Xaa23
173 <220> FEATURE:
174 <221> NAME/KEY: SITE
175 <222> LOCATION: 364
176 <223> OTHER INFORMATION: product= "Xaa is Gly or Asp"
177 /label= Xaa24
179 <220> FEATURE:
180 <221> NAME/KEY: SITE

RAW SEQUENCE LISTING
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Input Set : A:\36636revseq.txt
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181 <222> LOCATION: 426
182 <223> OTHER INFORMATION: product= "Xaa is Gly or Gln"
183 /label= Xaa25
185 <220> FEATURE:
186 <221> NAME/KEY: SITE
187 <222> LOCATION: 435
188 <223> OTHER INFORMATION: product= "Xaa is Val or Asp"
189 /label= Xaa26
191 <220> FEATURE:
192 <221> NAME/KEY: SITE
193 <222> LOCATION: 439
194 <223> OTHER INFORMATION: product= "Xaa is Gln or Lys"
195 /label= Xaa27
197 <220> FEATURE:
198 <221> NAME/KEY: SITE
199 <222> LOCATION: 442
200 <223> OTHER INFORMATION: product= "Xaa is Gly or missing"
201 /label= Xaa28
203 <220> FEATURE:
204 <221> NAME/KEY: SITE
205 <222> LOCATION: 443
206 <223> OTHER INFORMATION: product= "Xaa is Arg or Lys"
207 /label= Xaa29
209 <220> FEATURE:
210 <221> NAME/KEY: SITE
211 <222> LOCATION: 464
212 <223> OTHER INFORMATION: product= "Xaa is Cys or Ser or Val"
213 /label= Xaa30
215 <220> FEATURE:
216 <221> NAME/KEY: SITE
217 <222> LOCATION: 480
218 <223> OTHER INFORMATION: product= "Xaa is Ala or Gly"
219 /label= Xaa
221 <220> FEATURE:
222 <221> NAME/KEY: SITE
223 <222> LOCATION: 481
224 <223> OTHER INFORMATION: product= "Xaa is Gly or Ala"
225 /label= Xaa32
227 <220> FEATURE:
228 <221> NAME/KEY: SITE
229 <222> LOCATION: 483
230 <223> OTHER INFORMATION: product= "Xaa is Ser or Gly"
231 /label= Xaa33
233 <220> FEATURE:
234 <221> NAME/KEY: SITE
235 <222> LOCATION: 484
236 <223> OTHER INFORMATION: product= "Xaa is Gly or Ser"
237 /label= Xaa34
239 <220> FEATURE:

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Input Set : A:\36636revseq.txt

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240 <221> NAME/KEY: SITE
241 <222> LOCATION: 493
242 <223> OTHER INFORMATION: product= "Xaa is Gly or Tyr"
243     /label= Xaa35
245 <220> FEATURE:
246 <221> NAME/KEY: SITE
247 <222> LOCATION: 500
248 <223> OTHER INFORMATION: product= "Xaa is Asn or Ser or Thr or Lys"
249     /label= Xaa36
251 <220> FEATURE:
252 <221> NAME/KEY: SITE
253 <222> LOCATION: 501
254 <223> OTHER INFORMATION: product= "Xaa is Ser or Gly"
255     /label= Xaa37
257 <220> FEATURE:
258 <221> NAME/KEY: SITE
259 <222> LOCATION: 502
260 <223> OTHER INFORMATION: product= "Xaa is Leu or Pro"
261     /label= Xaa38
263 <220> FEATURE:
264 <221> NAME/KEY: SITE
265 <222> LOCATION: 503
266 <223> OTHER INFORMATION: product= "Xaa is Ala or Met"
267     /label= Xaa39
269 <220> FEATURE:
270 <221> NAME/KEY: SITE
271 <222> LOCATION: 504
272 <223> OTHER INFORMATION: product= "Xaa is Met or Val"
273     /label= Xaa40
275 <220> FEATURE:
276 <221> NAME/KEY: SITE
277 <222> LOCATION: 533
278 <223> OTHER INFORMATION: product= "Xaa is Pro or Phe"
279     /label= Xaa41
283 <400> SEQUENCE: 1
W--> 285   Tyr Glu Arg Leu Arg Leu Arg Val Thr His Gln Thr Thr Gly Xaa Glu
      286   1             5             10             15
      288   Tyr Phe Arg Phe Ile Thr Leu Leu Arg Asp Tyr Val Ser Ser Gly Ser
      289             20             25             30
      291   Phe Ser Asn Glu Ile Pro Leu Leu Arg Gln Ser Thr Ile Pro Val Ser
      292             35             40             45
W--> 294   Asp Ala Gln Arg Phe Val Leu Val Glu Leu Thr Asn Gln Gly Xaa Asp
      295             50             55             60
W--> 297   Ser Xaa Thr Ala Ala Ile Asp Val Thr Asn Xaa Tyr Val Val Ala Tyr
      298             65             70             75             80
      300   Gln Ala Gly Asp Gln Ser Tyr Phe Leu Arg Asp Ala Pro Arg Gly Ala
      301             85             90             95
W--> 303   Glu Thr His Leu Phe Thr Gly Thr Thr Arg Xaa Ser Ser Leu Pro Phe
      304             100            105            110

```

RAW SEQUENCE LISTING ERROR SUMMARY
 PATENT APPLICATION: US/09/601,667C

DATE: 09/09/2002
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Input Set : A:\36636revseq.txt
 Output Set: N:\CRF4\09092002\I601667C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 15,63,66,75,107,113,117,134,141,145,152,177,180,185,191
 Seq#:1; Xaa Pos. 219,224,225,232,236,287,290,325,364,426,435,439,442,443
 Seq#:1; Xaa Pos. 464,480,481,483,484,493,500,501,502,503,504,533
 Seq#:2; Xaa Pos. 15,63,66,75,107,113,117,134,141,145,152,177,180,185,191
 Seq#:2; Xaa Pos. 219,224,225,232,236
 Seq#:3; Xaa Pos. 18,21,56,95,157,166,170,173,174,195,211,212,214,215,224
 Seq#:3; Xaa Pos. 231,232,233,234,235,264
 Seq#:12; N Pos. 319,1322
 Seq#:13; N Pos. 319
 Seq#:14; N Pos. 517
 Seq#:33; N Pos. 3,6
 Seq#:34; N Pos. 9,15,18
 Seq#:40; Xaa Pos. 15,63,66,75,114,118,135,142,146,153,178,181,186,192,220
 Seq#:40; Xaa Pos. 225,226,233,237,288,291,326,365,427,436,440,443,444,465
 Seq#:40; Xaa Pos. 481,482,484,485,494,501,502,503,504,505,534
 Seq#:41; Xaa Pos. 15,63,66,75,114,118,135,142,146,153,178,181,186,192,220
 Seq#:41; Xaa Pos. 225,226,233,237

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
 per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27
 Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41

VERIFICATION SUMMARY

DATE: 09/09/2002

PATENT APPLICATION: US/09/601,667C

TIME: 14:43:44

Input Set : A:\36636revseq.txt

Output Set: N:\CRF4\09092002\I601667C.raw

L:1137 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:1201 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:1263 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:1327 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:1357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:300
L:1391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:1320
L:1405 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13
L:1428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:300
L:1448 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14
L:1478 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:480
L:1494 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15
L:1559 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16
L:1596 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:17
L:1633 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18
L:1698 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:19
L:1735 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:20
L:1772 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:21
L:1811 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:22
L:1850 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:23
L:1890 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:24
L:1929 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:25
L:1968 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:26
L:2007 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:27
L:2048 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:28
L:2087 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:29
L:2127 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:30
L:2166 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:31
L:2205 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:32
L:2247 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:33
L:2273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:2279 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:34
L:2314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:2320 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:35
L:2333 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:36
L:2350 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:37
L:2420 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:38
L:2484 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:39
L:2557 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:40
L:2967 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:2976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:48
L:2979 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:64
L:2988 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:112
L:3076 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:41



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Dossier: 09601667

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No.	Doccode	Number of pages
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Total number of pages: 6

Remarks:

Order of re-scan issued on